INTERNATIONAL SEARCH REPORT

International application No.

PCT/US05/10886

A. CLAS	SSIFICATION OF SUBJECT MATTER	· · · · · · · · · · · · · · · · · · ·		
IPC(7)	: D01D 5/12			
US CL	: 246/441			
	International Patent Classification (IPC) or to both na	tional classification and IPC		
B. FIEL	DS SEARCHED			
	cumentation searched (classification system followed to 46/441,452,465; 425/174.8E,174.8R; 57/402	by classification symbols)		
Documentation	on searched other than minimum documentation to the	extent that such documents are included in	n the fields searched	
Electronic da	ta base consulted during the international search (nam	e of data base and, where practicable, searc	ch terms used)	
C. DOC	UMENTS CONSIDERED TO BE RELEVANT			
Category *	Citation of document, with indication, where a	ppropriate, of the relevant passages	Relevant to claim No.	
Х	US 6,110,590 A (ZARKOOB et al) 29 August 2000	(29.08.2000), Figure 1.	1-10, 12-17, 28-31	
Y			18-26	
x	US 2,338,570 A (CHILDS) 30 October 1941 (30.10.	.1941), Figure 1.	1-17, 27-31	
Y	•		18-26	
x 	US 6,616,435 B2 (LEE et al) 09 September 2003 (09	9.09.2003), Figure 1A.	1-17, 27-31	
Y			18-26	
X Y	US 4,878,908 A (MARTIN et al) 07 November 1989 (07.11.1989), Figure 1.		1, 4-10, 12-15, 17, 28- 31	
Y	US 6,267,987 B1 (PARK et al) 31 July 2001 (31.07.2001), col 6, lines 35-55.		18-26 18-23 and 25-26	
Further documents are listed in the continuation of Box C. See patent family annex.				
* Special categories of cited documents: "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the "A" document defining the general state of the art which is not considered to be of principle or theory underlying the invention particular relevance				
"E" earlier app	plication or patent published on or after the international filing date	"X" document of particular relevance; the considered novel or cannot be considered when the document is taken alone		
	which may throw doubts on priority claim(s) or which is cited to the publication date of another citation or other special reason (as	"Y" document of particular relevance; the c considered to involve an inventive step with one or more other such documents	when the document is combined	
"O" document	referring to an oral disclosure, use, exhibition or other means	obvious to a person skilled in the art	a anon communich denig	
"P" document published prior to the international filing date but later than the "&" document member of the same patent family priority date claimed			àmily	
Date of the actual completion of the international search Date of mailing of the international search report				
27 September 2005 (27.09.2005) 0 5 DEC 2005				
Name and mailing address of the ISA/US Appropriated officer				
	Mail Stop PCT, Attn: ISA/US Commissioner for Patents Joseph S. Del Sole			
P.O.	P.O. Box 1450			
Alexandria, Virginia 22313-1450 Facsimile No. (703) 305-3230				
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tegory *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
Y	US 6,308,434 B1 (CHICKERING, III et al) 30 October 2001 (30.10.2001), col 8, line 40 - col 9, line 50.	18-23 and 25-26
Y	US 6,471,993 B1 (SHASTRI et al) 29 October 2002 (29.10.2002), col 3, lines 40-55.	18-26
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